

AMENDMENTS TO THE CLAIMS:

Please amend Claims 22, 25, 28, 31, 34, and 37 as follows:

1-21. (Canceled)

22. (Currently Amended) A communication system comprising:

a first apparatus in a wireless network;

a second apparatus in a wired network; and

a communication apparatus that is ~~arranged to communicate with the first apparatus and is arranged to communicate with the second apparatus,~~ includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit,  
~~wherein the communication apparatus includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit,~~  
wherein the wireless communication unit is ~~adapted to receive~~ capable of  
communicating with the first apparatus through the wireless network and receiving first  
encoded video data encoded by a first video encoding system and transmitted from the first apparatus,

wherein the decoding unit is adapted to decode the first encoded video data received by the wireless communication unit to provide decoded video data,

wherein the encoding unit is adapted to encode the decoded video data from the decoding unit into second encoded video data using a second video encoding system, and

wherein the wired communication unit is ~~adapted to transmit~~ capable of communicating with the second apparatus through the wired network and transmitting the second encoded video data to the second apparatus.

23. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

24. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

25. (Currently Amended) A communication apparatus ~~that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication apparatus comprising:~~

a wireless communication unit ~~adapted to receive~~ capable of communicating with a first apparatus through a wireless network and receiving first encoded video data encoded by a first video encoding system and transmitted from the first apparatus;

a decoding unit adapted to decode the first encoded video data received by the wireless communication unit to provide decoded video data;

an encoding unit adapted to encode the decoded video data from the decoding unit into second encoded video data using a second video encoding system; and

a wired communication unit ~~adapted to transmit~~ capable of communicating with a first apparatus through a wired network and receiving the second encoded video data to the second apparatus.

26. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

27. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

28. (Currently Amended) A communication method for a communication apparatus ~~that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network;~~ including a wireless communication unit capable of communicating with a first apparatus through a wireless network and a wired communication unit capable of communicating with a second apparatus through a wired network, the communication method comprising the steps of:  
receiving first encoded video data using the wireless communication unit,  
wherein the first encoded video data is encoded by a first video encoding system and transmitted from the first apparatus;

decoding the first encoded video data received in the receiving step to provide decoded video data;

encoding the decoded video data provided by the decoding step into second encoded video data using a second video encoding system; and

transmitting the second encoded video data to the second apparatus using the wired communication unit.

29. (Previously Presented) A communication method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

30. (Previously Presented) A communication method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

31. (Currently Amended) A communication system comprising:  
a first apparatus in a wireless network;  
a second apparatus in a wired network; and  
a communication apparatus that is ~~arranged to communicate with the first apparatus and is arranged to communicate with the second apparatus~~, includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit.

~~wherein the communication apparatus includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit,~~

wherein the wired communication unit is ~~adapted to receive~~ capable of communicating with the second apparatus through the wired network and receiving second encoded video data encoded by a second video encoding system and transmitted from the second apparatus,

wherein the decoding unit is adapted to decode the second encoded video data received by the wired communication unit to provide decoded video data,

wherein the encoding unit is adapted to encode the decoded video data from the decoding unit into first encoded video data using a first video encoding system, and

wherein the wireless communication unit is ~~adapted to transmit~~ capable of communicating with the first apparatus through the wireless network and transmitting the first encoded video data to the first apparatus.

32. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

33. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to display the first encoded video data,

and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

34. (Currently Amended) A communication apparatus ~~that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network~~, the communication apparatus comprising:

a wired communication unit ~~adapted to receive~~ capable of communicating with a second apparatus through a wired network and receiving second encoded video data encoded by a second video encoding system and transmitted from the second apparatus;

a decoding unit adapted to decode the second encoded video data received by the wired communication unit to provide decoded video data;

an encoding unit adapted to encode the decoded video data from the decoding unit into first encoded video data using a first video encoding system; and

a wireless communication unit ~~adapted to transmit~~ capable of communicating with a first apparatus through a wireless network and transmitting the first encoded video data to the first apparatus.

35. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

36. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

37. (Currently Amended) A communication method for a communication apparatus ~~that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network; including a~~ wireless communication unit capable of communicating with a first apparatus through a wireless network and a wired communication unit capable of communicating with a second apparatus through a wired network, the communication method comprising the steps of:

receiving second encoded video data using the wired communication unit,  
wherein the second encoded video data is encoded by a second video encoding system and transmitted from the second apparatus;

decoding the second encoded video data received in the receiving step to provide decoded video data;

encoding the decoded video data provided by the decoding step into first encoded video data using a first video encoding system; and

transmitting the first encoded video data to the first apparatus using the wireless communication unit.

38. (Previously Presented) A communication method according to claim 37, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

39. (Previously Presented) A communication method according to claim 37, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

40. (Previously Presented) A communication system according to claim 22, wherein the wired communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

41. (Previously Presented) A communication apparatus according to claim 25, wherein the wired communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

42. (Previously Presented) A communication method according to claim 28, wherein the transmitting step transmits the second encoded video data using an isochronous transfer.



43. (Previously Presented) A communication system according to claim 31, wherein the wired communication unit is adapted to receive the second encoded video data using an isochronous transfer.

44. (Previously Presented) A communication apparatus according to claim 34, wherein the wired communication unit is adapted to receive the second encoded video data using an isochronous transfer.

45. (Previously Presented) A communication method according to claim 37, wherein the receiving step receives the second encoded video data using an isochronous transfer.